

10/599794

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
20 October 2005 (20.10.2005)

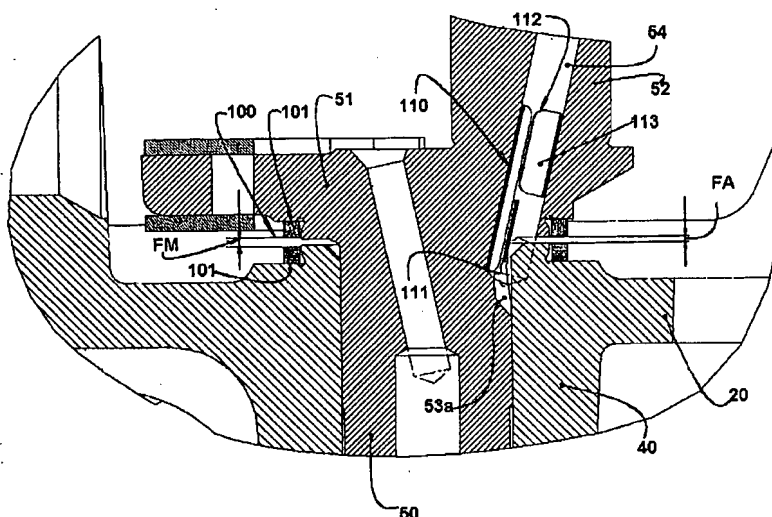
PCT

(10) International Publication Number  
**WO 2005/098236 A1**

- (51) International Patent Classification<sup>7</sup>: **F04B 39/02**, F16C 39/06
- (21) International Application Number: PCT/BR2005/000048
- (22) International Filing Date: 11 April 2005 (11.04.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: PI 0401574-6 12 April 2004 (12.04.2004) BR
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report

[Continued on next page]

(54) Title: AXIAL BEARING ARRANGEMENT IN A HERMETIC COMPRESSOR



(57) Abstract: A magnetic axial bearing arrangement in a reciprocating hermetic compressor, comprising: a cylinder block (20) and a radial bearing hub (40); a crankshaft (50) securing a rotor (61) of an electric motor (60), said arrangement comprising at least one magnetic axial bearing assembly (100) formed of a pair of magnet elements (101), a magnet element (101) of each pair being mounted to a respective part of at least one of the pairs of parts of crankshaft (50) and cylinder block (20), of cylinder block (20) and rotor (61), or of crankshaft (50) and external bearing (120), the parts of at least one of the pairs of parts carrying respective confronting mechanical stops which are maintained spaced apart by an axial gap (FA) smaller than a magnetic axial gap (FM) higher than zero and to be maintained between the magnet elements (101) of a magnetic axial bearing assembly (100).

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